BHRUHAT BANGALORE MAHANAGARA PALIKE

Project Division Yelahanka ZONE

Name of Work:-Package-02 Construction of Samudaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Colony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony

Measurement Sheet

2nd and Part Bill

Name of Agency: K.Gopireddy

Work Order :- EE(Project)/Ynk Zone/WO/78/2017-18

Name of the Division:- Project Division, Yelahanka

Measurement Recorded On:-12/06/2019

Item No: 4

Item Name: Earthwork excavation by manual means for foundation of buildings,water supply,sanitary lines and electrical conduits either in pis or in trenches1.5m and above in width,in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits & trenches ,stacking the excavated soil clear from the edges of excavation with lead upto 50m after breaking of clods complete as per specifications. and as per the direction Engineer-in-Charge

Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
Samudaya Bhavan at Kuvempunagar							
Flooring at Outside							
Sides		1	15.00	2.00	0.20	6.00	
Back Side		1	10.00	0.80	0.20	1.60	
Front		1	8.60	9.35	0.20	16.08	
Deductions							
Toilet		-1	4.00	0.75	0.20	-0.60	
Sump		-1	3.00	2.50	0.20	-1.50	
					Total Qty	**21.58**	**Cum**
					Present Qty	**21.58**	**Cum**
					At the Rate-Rs	**6366.69**	
					Amount	**137405.90**	

6366.69 25.58

Contractor Representative

Asst Engineer
Project Division Yelahanka ZONE , BBMP
12/6

Consultant Representative

Asst.Executive Engineer
Project Division Yelahanka ZONE , BBMP
12/6/19

BHRUHAT BANGALORE MAHANAGARA PALIKE

Project Division Yelahanka ZONE

Name of Work:-Package-02 Construction of Samudaya Bhavana Buildings at Dasarahalli SC Colony Muniyannapalya Clony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony

Measurement Sheet

2nd and Part Bill

Name of Agency: K.Gopireddy

Work Order :- EE(Project)/Ynk Zone/WO/78/2017-18

Name of the Division:- Project Division, Yelahanka

Measurement Recorded On:-15/06/2019

Item No:	5
Item Name:	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed concrete laid layers not exceeding 15cms thick well compacted in foundation and plinth including cost of all materials, labour. HOM of mahinery, curing complete as per specifications . and as per the direction Engineer-in-Charge

Sl.No	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
	Samudaya Bhavan at Kuvempunagar							
	Staircase pit		1.00	1.00	0.75	0.15	0.11	
	Flooring at Outside							
	Sides		1	15.00	2.00	0.15	4.50	
	Back Side		1	10.00	0.80	0.15	1.20	
	Front		1	8.60	9.35	0.15	12.06	
	Deductions							
	Toilet		-1	4.00	0.75	0.15	-0.45	
	Sump		-1	3.00	2.50	0.15	-1.13	
						Total Qty	**16.30**	**Cum**
						Quantity upto 125%	**0.87**	**Cum**
						At the Rate-Rs	**5187.50**	
						Amount		**4507.16**
						Quantity Above 125%	**15.43**	**Cum**
						At the Rate-Rs	**5250.00**	
						Amount	**81008.29**	
						Total Amount	**85515.45**	

Contractor Representative

Asst Engineer
Project Division Yelahanka ZONE , BBMP
15/6

Consultant Representative

Asst.Executive Engineer
Project Division Yelahanka ZONE ,
BBMP
15/6/19

BHRUHAT BANGALORE MAHANAGARA PALIKE

Project Division Yelahanka ZONE

Name of Work:-Package-02 Construction of Samudaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Clony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony

Measurement Sheet

2nd and Part Bill

Name of Agency: K.Gopireddy

Work Order :- EE(Project)/Ynk Zone/WO/78/2017-18

Name of the Division:- Project Division, Yelahanka

Measurement Recorded On:-17/06/2019

Item No:	6	
Item Name:	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, Pedastals, retaining walls, return walls (any thickness) including attached pilasters, columns, pillars, posts, struts, bed blocks, anchor blocks and Plinth etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. and as per the direction Engineer-in-Charge	

SL.No	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
	Samudaya Bhavan at Kuvempunagar							
	Staircase pit		1	1.00	0.60	0.60	0.36	
						Total Qty	**0.36**	**Cum**
						Present Qty	**0.36**	**Cum**

Contractor Representative

Consultant Representative

Asst Engineer
Project Division Yelahanka ZONE , BBMP
17/6

Asst.Executive Engineer
Project Division Yelahanka ZONE , BBMP
17/6/19

BHRUHAT BANGALORE MAHANAGARA PALIKE

Project Division Yelahanka ZONE

Name of Work:-Package-02 Construction of Samudaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Clony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony

Measurement Sheet

2nd and Part Bill

Name of Agency: K.Gopireddy

Work Order :- EE(Project)/Ynk Zone/WO/78/2017-18

Name of the Division:- Project Division, Yelahanka

Measurement Recorded On:-04/06/2019

Item No:	11	
Item Name:	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications.and as per the direction Engineer-in-Charge	

Description	Unit	No's		Length	Breadth	H/D	Qty	Remarks
Samudaya Bhavan at Kuvempunagar								
Sump		4		2.70		1.55	16.74	
		4		1.75		1.55	10.85	
Staircase pit		2		1.00		0.75	1.50	
Staircase beam		2		2.00		0.83	3.32	
Roof Sides		2		7.95		0.15	2.39	
		2		15.4		0.15	4.62	
Staircase Steps		24		1.00		0.15	3.60	
					Total Qty		**43.02**	
					Present Qty		**43.02**	
				Quantity upto 125%			**17.77**	**Sqm**
					At the Rate-Rs		**316.00**	
					Amount		**5613.74**	5615.32
				Quantity Above 125%			**25.25**	**Sqm**
					At the Rate-Rs		**312.29**	
					Amount		**7885.44**	7882.19
					Total Amount		**13499.18**	13497.51

Contractor Representative

Consultant Representative

Asst Engineer
Project Division Yelahanka ZONE , BBMP
4/6

Asst.Executive Engineer
Project Division Yelahanka ZONE , BBMP
04/6/19

BRUHAT BANGALORE MAHANAGARA PALIKE

Project Division Yelahanka ZONE

Name of Work:-Package-02 Construction of Samudaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Clony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony

Measurement Sheet

2nd and Part Bill

Name of Agency: K.Gopireddy

Item No: 15

Item Name: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the direction Engineer-in-Charge

Chainage		Unit	No	Dia in mm	Span	Length of bar	Spacing (m)	Total No.of bars ((6/8)x4) +1	Total Length of bar (m) (7 x 9)	Weight per m	Qty in Kgs (10 x 11)	Remarks
From	To											
1	2	3	4	5	6	7	8	9	10	11	12	13
		Tonne										
Measurement recorded on:		06/2019,21/06/2019										
Samudaya Bhavan at Kuvempu Nagar												
Stair Case												
Waist slab-1			1	12.00	4.00	0.95	0.120	34.33	32.62	0.89	29.03	
			1	10.00	0.95	0.45	0.120	8.92	4.01	0.62	2.49	
Waist slab-2			1	12.00	3.20	0.95	0.120	27.67	26.28	0.89	23.39	
			1	10.00	0.95	0.45	0.120	8.92	4.01	0.62	2.49	
Steps			24	12.00	0.85	1.00		144.00	144.00	0.89	128.16	
			24	10.00	1.00	0.60	0.120	201.00	120.60	0.62	74.77	
Landing			2	12.00	2.00	0.95	0.150	27.67	26.28	0.89	23.39	
			2	10.00	0.95	2.30	0.150	13.67	31.43	0.62	19.49	
Beam												
			2	16.00	2.00	2.00		12.00	24.00	1.58	37.92	
Extra bar			2	20.00	2.00	2.00		4.00	8.00	2.47	19.76	
			2	8.00	2.00	0.42	0.120	34.33	14.42	0.39	5.62	
Stair Case Pit			1	12.00	1.00	1.50		10.00	15.00	0.89	13.35	
			1	12.00	1.00	1.50		10.00	15.00	0.89	13.35	
Roof Slab												

Chainage From	Chainage To	Unit	No	Dia in mm	Span	Length of bar	Spacing (m)	Total No.of bars ((6/8)x4) +1	Total Length of bar (m) (7 x 9)	Weight per m	Qty in Kgs (10 x 11)	Remarks
			1	10.00	16.30	7.95	0.125	131.40	1044.63	0.62	647.67	
			1	10.00	7.95	16.30	0.125	64.60	1052.98	0.62	652.85	
Extra Bar			1	12.00	7.95	5.00	0.125	64.60	323.00	0.89	287.47	
Column above Roof												
For 10 no of Columns			10	20.00	0.60	0.60		80.00	48.00	2.46	118.08	
			10	16.00	0.60	0.60		20.00	12.00	1.58	18.96	
			10	8.00	0.60	1.16	0.125	49.00	56.84	0.39	22.17	
Column For Toilet												
For 4no of Columns			4	12.00	2.10	2.10		16.00	33.60	0.89	29.90	
			4	8.00	2.10	0.70	0.125	68.20	47.74	0.39	18.62	
Roof Slab for Toilet												
			1	10.00	2.00	1.50	0.125	17.00	25.50	0.62	15.81	
			1	10.00	1.50	2.00	0.125	13.00	26.00	0.62	16.12	
Sump Raft												
			1	10.00	2.70	2.15	0.100	28.00	60.20	0.62	37.32	
			1	10.00	2.15	2.70	0.100	22.50	60.75	0.62	37.67	
Sump Wall												
2No of Walls			4	10.00	2.70	2.00	0.100	109.00	218.00	0.62	135.16	
			4	10.00	1.55	3.15	0.100	63.00	198.45	0.62	123.04	
2No of Walls			4	10.00	1.75	2.00	0.100	71.00	142.00	0.62	88.04	
			4	10.00	1.55	2.20	0.100	63.00	138.60	0.62	85.93	
Slab for Sump												
			2	10.00	2.70	2.15	0.100	55.00	118.25	0.62	73.32	
			2	10.00	2.15	2.70	0.100	44.00	118.80	0.62	73.66	
										Total Qty in Kgs	2874.99	
										Total Quantity	2.87	MT
										Present Quantity	2.87	MT

Chainage		Unit	No	Dia in mm	Span	Length of bar	Spacing (m)	Total No.of bars ((6/8)x4) +1	Total Length of bar (m) (7 x 9)	Weight per m	Qty in Kgs (10 x 11)	Remarks
From	To											
										Quantity limited to sh-b	2.84	MT
										Quantity upto 125%	0.00	MT
										Rate	76329.00	
										Amount	0.00	
										Quantity Above 125%	2.83	MT
										Rate	60434.87	
										Amount	171031.30	

Contractor Representative

Asst Engineer
Project Division Yelahanka
ZONE , BBMP

Consultant Representative

21/6/19

Asst.Executive Engineer
Project Division Yelahanka ZONE
, BBMP

BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Package-02 Construction of Samudaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Clony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony

Measurement Sheet

2nd and Part Bill

Name of Agency: K.Gopireddy

Work Order :- EE(Project)/Ynk Zone/WO/78/2017-18

Name of the Division:- Project Division, Yelahanka

Measurement Recorded On:-23/08/2019

65 Earthwork excavation for foundation of structures as per drawings and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising /tramsporting the remaining earth locally upto1.0kms lead - Ordinary Rock (not required blasting)- Manual means) ---- All terms and conditions as per the Tender document

SL NO	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
	For Chamber							
	Samudaya Bhavan at Dasarahalli							
			4	0.75	0.75	0.90	2.03	
	Samudaya Bhavan at Kuvempu Nagar							
			3	0.75	0.75	0.90	1.52	
	For Tempravoiury Toilet							
			2	6.60	0.45	0.60	3.56	
						Total Qty	7.11	**Cum**
						Present Qty	7.11	**Cum**
						At the Rate-Rs	70.0	
						Amount	497.54	

Contractor Representative

Asst Engineer
Project Division Yelahanka ZONE , BBMP

23/8

Consultant Representative

23/8/19

Asst.Executive Engineer
Project Division Yelahanka
ZONE , BBMP

BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Package-02 Construction of Samudaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Clony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony

Measurement Sheet

2nd and Part Bill

Name of Agency: K.Gopireddy

Work Order :- EE(Project)/Ynk Zone/WO/78/2017-18

Name of the Division:- Project Division, Yelahanka

Measurement Recorded On:-25/08/2019

66 Providing and laying in position plain cement concrete of mix 1:3:6 with OPC Cement @220kgs with 40mm and down size graded granite metal coarse aggregate @0.892 cum and fine aggregates @0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, 110M of machinery, curing complete as per specifications . Specification No. KBS4.1,4.2 ---- All terms and conditions as per the Tender document and as per the direction Engineer-in-Charge

SL NO	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
	For Chamber							
	Samudaya Bhavan at Dasarahalli							
			4	0.60	0.60	0.15	0.22	
	Samudaya Bhavan at Kuvempu Nagar							
			3	0.60	0.60	0.15	0.16	
	For Tempravoiury Toilet							
			2	6.60	0.45	0.15	0.89	
						Total Qty	1.27	Cum
						Qty limit to	0.80	Cum
						Present Qty	0.80	Cum
						At the Rate-Rs	5400.0	
						Amount	4320.00	

Contractor Representative

Consultant Representative

Asst Engineer
Project Division Yelahanka ZONE , BBMP

Asst.Executive Engineer
Project Division Yelahanka
ZONE , BBMP

BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Package-02 Construction of Samudaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Clony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony

Measurement Sheet

2nd and Part Bill

Name of Agency: K.Gopireddy

Work Order :- EE(Project)/Ynk Zone/WO/78/2017-18

Name of the Division:- Project Division, Yelahanka

Measurement Recorded On:-30/08/2019

67 Providing and laying in position reinforced cement concrete of design I mix M25 with OPC cement @340 Kg with 20mm and downsize graded granite metal coars aggregates @0.70 cum and fine aggregates @0.47 cum with superplasticisers @ 3 liters confirming to IS9103-1999 Reaffirmed -2008 at machine mixed concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining wall returns walls, walls(any thickness) including attached pilasters, coloumns, pillars, posts, struts, buttresses bed blocks, anchor blocks & plinth etc., including cost of all materials labour HOM of machinary curing complete as per specifications, specifications No KBS-4.1, 4.6 specification No:KBS4.1,4.6(PWD SR 2016-17)(Page No.13 item No.4.10) ---- All terms and conditions as per the Tender document and as per the direction Engineer-in-Charge

SL NO	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
	For Chamber Covering Slab							
	Samudaya Bhavan at Dasarahalli							
			4	0.75	0.75	0.15	0.34	
	Samudaya Bhavan at Kuvempu Nagar							
			3	0.75	0.75	0.15	0.25	
						Total Qty	**0.59**	**Cum**
						Present Qty	**0.59**	**Cum**
						At the Rate-Rs	**6500.0**	
						Amount	**3839.06**	

Contractor Representative

Consultant Representative

Asst Engineer
Project Division Yelahanka ZONE , BBMP
30/8

Asst.Executive Engineer
Project Division Yelahanka
ZONE , BBMP
30/8/19

BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:- Package-02 Construction of Samudaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Clony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony

Measurement Sheet

2nd and Part Bill

Name of Agency: K.Gopireddy

Work Order :- EE(Project)/Ynk Zone/WO/78/2017-18

Name of the Division:- Project Division, Yelahanka

Measurement Recorded On:-26/08/2019

69 Providing and removing centering, shuttering, strutting, propping etc., and removal of from work for sides and soffits of beams, beam haunchings, cantilever griders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 ---- All terms and conditions as per the Tender document and as per the direction Engineer-in-Charge

SL NO	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
	For Chamber Covering Slab							
	Samudaya Bhavan at Dasarahalli							
			16	0.75		0.15	1.80	
	Samudaya Bhavan at Kuvempu Nagar							
			12	0.75		0.15	1.35	
						Total Qty	**3.15**	**Sqm**
						Present Qty	**3.15**	**Sqm**
						At the Rate-Rs	**260.0**	
						Amount	**819.00**	

Contractor Representative

Asst Engineer
Project Division Yelahanka ZONE , BBMP
26/8

Consultant Representative

26/8/19

Asst.Executive Engineer
Project Division Yelahanka
ZONE , BBMP

BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Package-02 Construction of Samudaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Clony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony

Measurement Sheet

2nd and Part Bill

Name of Agency: K.Gopireddy

Work Order :- EE(Project)/Ynk Zone/WO/78/2017-18

Name of the Division:- Project Division, Yelahanka

Measurement Recorded On:-26/08/2019

70 Providing and removing centering, shuttering, strutting, propping etc., and removal of from work for flat surface such as suspended floors, roofs landings, balconies and likes, thickness upto 200mm including cost of all materials, labour complete as per specificationSpecification No. KBS 4.6.2 - 0-5.0mts Ht ---- All terms and conditions as per the Tender document and as per the direction Engineer-in-Charge

SL NO	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
	For Chamber Covering Slab							
	Samudaya Bhavan at Dasarahalli							
			4	0.75	0.75		2.25	
	Samudaya Bhavan at Kuvempu Nagar							
			3	0.75	0.75		1.69	
						Total Qty	**3.94**	**Sqm**
						Present Qty	**3.94**	**Sqm**
						At the Rate-Rs	**565.0**	
						Amount	**2224.69**	

Contractor Representative

Asst Engineer
Project Division Yelahanka ZONE , BBMP
26/8

Consultant Representative

26/8/19

Asst.Executive Engineer
Project Division Yelahanka
ZONE , BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Project Division Yelahanka ZONE

Name of Work:-Package-02 Construction of Samudaya Bhavana Buildings at Dasarahalli SC Colony Mariyannapalya Clony Amruthahalli SC Colony Kuvempunagara SC Colony and Varadarajanagara SC Colony

Measurement Sheet

2nd and Part Bill

Name of Agency: K.Gopireddy

Item No: 72

Item Name: Providing TMT Steel reinforcement for RCC work including straightening, cutting, bending, hooking placing in position lapping and/ or welding wherever required typing with binding wire and anchoring to the adjoining members wherever necessary complete as per design(laps, hooks and wastage shall not be measured and paid) cost of materials labour, HOM of machinery complete as per specifications, Specification No KBS 4.6.3 -do- TMT bars Fe 500(PWD SR 2016-17)(Page No.1 item No.4.46.2) ---- All terms and conditions as per the Tender document and as per the direction Engineer-in-Charge

Chainage From	Chainage To	Unit	No	Dia in mm	Span	Length of bar	Spacing (m)	Total No.of bars ((6/8)x4) +1	Total Length of bar (m) (7 x 9)	Weight per m	Qty in Kgs (10 x 11)	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13
		Tonne										
Measurement recorded on:				26-8-19								
Samudaya Bhavan at Kuvempu Nagar												
			4	12.00	0.75	0.75	0.150	390.00	292.50	0.89	260.33	
			4	10.00	0.75	0.75	0.200	16.00	12.00	0.62	7.44	
Samudaya Bhavan at Dasarahalli												
			3	12.00	0.75	0.75	0.150	16.00	12.00	0.89	10.68	
			3	10.00	0.75	0.75	0.200	12.25	9.19	0.62	5.70	
										Total Qty in Kgs	284.14	
										Total Quantity	0.28	MT
										Qty limilt to	0.24	MT
										Present qty	0.24	MT
										Rate	75000.0	
										Amount	18000.00	

Contractor Representative

Asst Engineer
Project Division Yelahanka
ZONE , BBMP

Consultant Representative

MECADEZ

20/8/19

Asst.Executive Engineer
Project Division Yelahanka ZONE
, BBMP